

Title (en)  
VASCULAR TREATMENT DEVICES AND METHODS

Title (de)  
GEFÄSSBEHANDLUNGSVERFAHREN UND -VORRICHTUNGEN

Title (fr)  
DISPOSITIFS ET MÉTHODES DE TRAITEMENT VASCULAIRE

Publication  
**EP 2640442 A4 20170405 (EN)**

Application  
**EP 11841604 A 20111115**

Priority  
• US 41389510 P 20101115  
• US 2011060860 W 20111115

Abstract (en)  
[origin: US2012130410A1] An apparatus for performing a vascular treatment includes an intraluminal member that is controllingly moved during the vascular treatment. The intraluminal member of the vascular treatment device can be connected to a motor. The rotation direction of the intraluminal member can be reversed to reduce the incidence and duration of vein entanglement during a vascular ablation procedure. Reversal of direction could occur automatically, or in response to a sensor such as a load sensor provided as part of the motorized drive system.

IPC 8 full level  
**A61B 17/12** (2006.01); **A61B 17/3207** (2006.01); **A61B 17/00** (2006.01); **A61M 25/09** (2006.01)

CPC (source: EP US)  
**A61B 17/12013** (2013.01 - EP US); **A61B 17/3207** (2013.01 - US); **A61B 17/320758** (2013.01 - EP US); **A61B 17/12186** (2013.01 - EP US); **A61B 2017/00778** (2013.01 - US); **A61B 2017/1205** (2013.01 - US); **A61B 2017/320733** (2013.01 - EP US); **A61B 2017/320766** (2013.01 - US)

Citation (search report)  
• [X] US 2005085836 A1 20050421 - RAYMOND JEAN [CA]  
• [X] US 2004153110 A1 20040805 - KURZ DANIEL R [US], et al  
• [X] US 5078723 A 19920107 - DANCE CREG [US], et al  
• See references of WO 2012068166A2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**US 2012130410 A1 20120524; US 9375216 B2 20160628;** AU 2011328994 A1 20130704; AU 2011328994 B2 20150709; AU 2011328997 A1 20130704; AU 2011328998 A1 20130704; AU 2015238815 A1 20151029; AU 2015238901 A1 20151029; AU 2015238901 B2 20180315; AU 2017268602 A1 20171221; AU 2017268602 B2 20191031; AU 2018204304 A1 20180705; AU 2018204304 B2 20200116; CA 2817545 A1 20120524; CA 2817545 C 20190820; CA 2817586 A1 20120524; CA 2817586 C 20181106; CA 2817588 A1 20120524; EP 2640284 A2 20130925; EP 2640284 A4 20170104; EP 2640284 B1 20210407; EP 2640442 A2 20130925; EP 2640442 A4 20170405; EP 2640442 B1 20200909; EP 2640443 A2 20130925; EP 2640443 A4 20170802; EP 3378509 A1 20180926; EP 3378509 B1 20191225; EP 3881783 A1 20210922; JP 2014500760 A 20140116; JP 2014500761 A 20140116; JP 2014500762 A 20140116; JP 2016120320 A 20160707; JP 2018008079 A 20180118; JP 2019088798 A 20190613; JP 6035244 B2 20161130; JP 6068355 B2 20170125; JP 6262782 B2 20180117; JP 6546631 B2 20190717; JP 6626186 B2 20191225; US 11241250 B2 20220208; US 2012130411 A1 20120524; US 2012130415 A1 20120524; US 2014207052 A1 20140724; US 2016302822 A1 20161020; US 2020129180 A1 20200430; US 8696645 B2 20140415; US 9585667 B2 20170307; WO 2012068162 A2 20120524; WO 2012068162 A3 20120719; WO 2012068165 A2 20120524; WO 2012068165 A3 20120816; WO 2012068166 A2 20120524; WO 2012068166 A3 20120802

DOCDB simple family (application)  
**US 201113295495 A 20111114;** AU 2011328994 A 20111115; AU 2011328997 A 20111115; AU 2011328998 A 20111115; AU 2015238815 A 20151007; AU 2015238901 A 20151009; AU 2017268602 A 20171130; AU 2018204304 A 20180615; CA 2817545 A 20111115; CA 2817586 A 20111115; CA 2817588 A 20111115; EP 11841343 A 20111115; EP 11841604 A 20111115; EP 11841745 A 20111115; EP 18154183 A 20111115; EP 21160558 A 20111115; JP 2013539004 A 20111115; JP 2013539005 A 20111115; JP 2013539006 A 20111115; JP 2016028487 A 20160218; JP 2017161223 A 20170824; JP 2018240455 A 20181225; US 2011060855 W 20111115; US 2011060859 W 20111115; US 2011060860 W 20111115; US 201113194253 A 20110729; US 201113295518 A 20111114; US 201414218527 A 20140318; US 201615194083 A 20160627; US 201916730824 A 20191230